

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number  
WO 2005/012232 A3

(51) International Patent Classification<sup>7</sup>: C07C 243/28, A61K 31/16, A61P 19/10

(21) International Application Number: PCT/EP2004/051531

(22) International Filing Date: 16 July 2004 (16.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/488,614 18 July 2003 (18.07.2003) US

(71) Applicant (for all designated States except US): Applied Research Systems ARS Holding N.V. [—NL]; Pietermaai 15, NL- Curacao (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ARALDI, Gian Luca [IT/US]; 22 Hillview Lane, Plymouth, Massachusetts 02360 (US). LIAO, Yihua [CN/US]; 40 Highview Street, Westwood, Massachusetts 02090 (US). BRUGGER, Nadia [CH/US]; 210 Springfield #3, Boston, Massachusetts 02118 (US).

(74) Agent: Serono International SA Intellectual Property Department Hassa, Juergen; 12, Chemin des Aulx, Planles-Ouates, 1228 (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

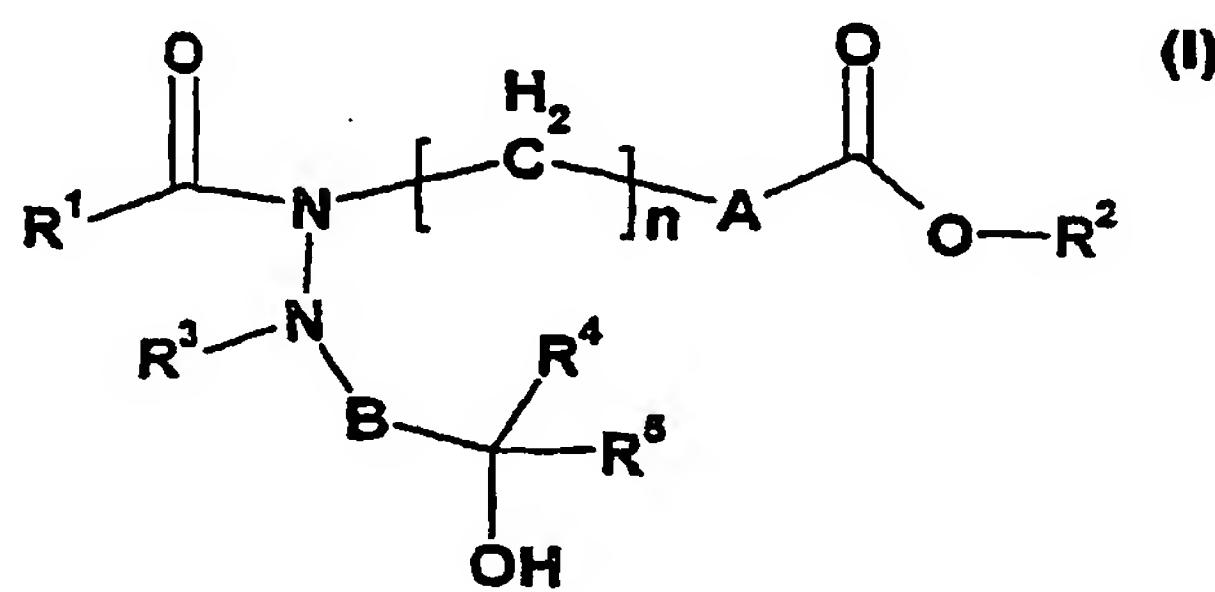
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 31 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

A3 (54) Title: HYDRAZIDE DERIVATIVES AS PROSTAGLANDIN RECEPTORS MODULATORS



(57) Abstract: The present invention relates to hydrazide derivatives of Formula (I) notably for use as pharmaceutically active compounds, as well as to pharmaceutical formulations containing such hydrazide derivatives. Said hydrazide derivatives are useful in the treatment of preterm labor, dysmenorrhea, fertility disorders, asthma, hypertension, undesired blood clotting, preelampsia, eclampsia, an eosinophil disorder, undesired bone loss, renal dysfunction, an immune deficiency disorder, ichthyosis, elevated intraocular pressure, infertility, sexual dysfunction, gastric ulcers and inflammatory disorders.

WO 2005/012232 A3